Abstract

*Tinospora cordifolia* is widely used in Indian Ayurvedic medicine for the treatment of diabetes mellitus. Oral administration of 2.5 g and 5.0 g/kg body weight of the aqueous extract of the roots for 6 weeks resulted in a significant reduction in thiobarbituric acid reactive substances (TBARS) and an increase in reduced glutathione (GSH), catalase (CAT) and superoxide dismutase (SOD) in alloxan diabetic rats. The effect of *Tinospora cordifolia* root extract (TCREt) was most prominently seen in the case of rats given 5.0 g/kg body weight. The effect of TCREt was more effective than glibenclamide. Thus our study shows that TCREt exhibits antioxidant action in alloxan diabetes.